New Amendments to the 2004 Standard Specifications
Effective August 1, 2005

Please note: New Amendments to the Standard Specifications are described below. Previous Amendments that are not revised in this package are still in effect. Amendments to the Standard Specifications take precedence over the Standard Specifications in accordance with Section 1-04.2. The following list is a brief overview of the current revisions, with an explanation of why each change was made. The actual provisions should be reviewed in depth to become completely knowledgeable of the full extent of the revisions.

The specifications can be accessed at the Project Development web site at http://www.wsdot.wa.gov/eesc/design/projectdev/.

DIVISION 1 – GENERAL REQUIREMENTS

Section 1-07.1 Laws to be Observed

References the safety and health regulations in a general sense rather than to specific sections as previously written. This is because laws and regulations change and cause a high maintenance demand in our provisions, and because overly specific references may exclude relevant regulations.

Section 1-07.5 Environmental Regulations

Modifies section title and adds common permit conditions into the contract. Permits are typically attached to contracts as Appendices, but permit requirements should be translated into contract provisions in order to be enforceable.

Section 1-07.7(2) Load Limits

Enhances the submittal information required of the Contractor when requesting use of existing or newly constructed bridges to support construction equipment during an active contract. Allows a more detailed analysis of whether equipment may cause damage to structures.

Section 1-07.14 Responsibility for Damage

Allows WSDOT to determine entitlement and make payment on behalf of the Contractor for tort claims that go without response for greater than 60 days. Failure by Contractors to promptly respond to tort claims results in a public perception that WSDOT is unresponsive. Contractors that promptly respond to tort claims will not be affected by this provision, regardless of whether the claim is allowed or denied. This provision is only employed when Contractors fail to notify the Department of their determination within the specified time. Also, this section is revised to include the Governor in the list of entities to be indemnified, because WSDOT now reports directly to the Governor instead of to the Transportation Commission.

Section 1-07.15(1) Spill Prevention, Control and Countermeasures Plan

Revises references to Safety and Health regulations, and adds common permit conditions for work below ordinary high water. Permits are typically attached to contracts as Appendices, but permit requirements should be translated into contract provisions in order to be enforceable.

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Section 1-07.20 Patented Devices, Materials, and Processes
Includes the Governor in the list of entities to be indemnified because WSDOT now reports directly to the Governor instead of to the Transportation Commission.

Section 1-07.26 Personal Liability of Public Officers
Includes the Governor in the list of entities to be indemnified because WSDOT now reports directly to the Governor instead of to the Transportation Commission.

Section 1-09.1 Measurement of Quantities
Defines the method and precision of measurement for bid items measured by the Hour in order to provide statewide uniformity.

Section 1-10 Temporary Traffic Control
Clarifies that work performed by Traffic Control Supervisors performing the duties of "Flaggers and Spotters" or "Other Traffic Control Labor" may be measured and paid for under those bid items. Eliminates a conflict with Section 8-21 when the bid item for "Sign Covering" is included in the proposal.

Section 1-99 APWA Supplement
Includes the Governor in the list of references that are revised to read "Contracting Agency." These provisions are not for use on contracts administered by WSDOT.

DIVISION 2 – EARTHWORK

Section 2-02.4 Measurement
Adds a Measurement statement to this section. The Measurement statement has never appeared in this section.

Section 2-09.3(3)A Preservation of Channel
Modifies language to address common permit conditions. Permits are typically attached to contracts as Appendices, but permit requirements should be translated into contract provisions in order to be enforceable.

DIVISION 5 – SURFACE TREATMENTS AND PAVEMENTS

Section 5-01 Cement Concrete Pavement Rehabilitation
Adds criteria for using concrete patching material, and modifies patching material mix designs from requiring an accredited laboratory to determine material proportions to requiring the manufacturers recommended proportions of materials. Defines the work involved in replacing uncompactable surfacing material beneath panels to be replaced, and provides for force account payment for this work because it is impossible to estimate and has been the source of many change orders in the past. Adds opening to traffic requirements for dowel bar retrofit, as this was missing from previous editions. Extends the requirement for containment of concrete slurry to all work in this section, as this previously applied to concrete grinding only.

Section 5-04.5 Payment
Revise statement for "Pavement Repair Excavation Incl. Haul" to exclude the cost of HMA for backfilling the excavation. The previous statement for pavement repair excavation included all work described 5-04.3(5)E, and that section describes backfilling with HMA.

Section 5-05.3(7) Placing, Spreading, and Compacting Concrete
Modifies density requirement from a percentage of the "original" mix design to a percentage of the "approved" mix design density. Mix design changes are allowed and the maximum density of the HMA mix design may vary throughout the life of the contract.

DIVISION 6 – STRUCTURES

Section 6-01.6 Load Restrictions on Bridges Under Construction
Enhances the submittal information required of the Contractor when requesting use of existing or newly constructed bridges to support construction equipment during an active contract. Allows a more detailed analysis of whether equipment may cause damage to structures.

Section 6-02.3(6)D Protection Against Vibration
New provisions that prohibit vibration-causing operations and equipment in the vicinity of freshly placed concrete in order to eliminate vibration damage caused prior to concrete setting.

Section 6-02.3(11) Curing Concrete
Enhanced to provide a timeline for applying curing compound, to require soaker hoses for deck pours, and to eliminate the lag between burlap placement and installation of white plastic sheeting. Initial curing of concrete bridge decks has proven to be a major factor in the lifespan of the structure.

Section 6-02.3(17)F Bracing
Includes several new girder types that have been added recently.

Section 6-02.3(17)O Early Concrete Test Cylinder Breaks
Adds requirement for Contractors' testing laboratories to use calibrated equipment, to provide testers that are ACI certified or qualified according to AASHTO R18, and to submit proof of equipment calibration and tester qualification.

Section 6-02.3(25) Prestressed Concrete Girders
Deletes several types of girders that are no longer produced.

Section 6-02.3(25)B Casting
By agreement with industry, removes the requirement for air entrained concrete in the top two inches of prestressed concrete girders because it reduced strength, and was rarely subject to freeze-thaw because the girders are generally overlayed with concrete or asphalt. Also deletes several types of girders that are no longer produced.

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Section 6-02.3(25)K Girder Deflection
The Bridge and Structures Office is revising how the prestressed girder midspan deflections are presented in the Plans. Instead of specifying dimensions at one specific time after fabrication, the deflections will be specified for a specific time period range. This section is revised to specify girder deflections at midspan at 40 and 120 days after release of the prestressing strands.

Section 6-02.3(25)L Handling and Storage
Deletes several types of girders that are no longer produced.

Section 6-02.3(25)M Shipping
Deletes several types of girders that are no longer produced.

Section 6-02.3(25)N Prestressed Concrete Girder Erection
Deletes the requirement to grout the remaining dowel bar into the precast prestressed concrete slab, because the grout is unnecessary and can cause problems if incorrectly installed.

Section 6-02.3(25)O Deck Bulb Tee Girder Flange Connection
Deletes the requirement to grout the keyways for girders receiving a cast-in-place concrete deck, because the keyway is filled with concrete during deck placement.

Section 6-02.3(26)E Ducts
The specifications for ducts used for longitudinal tendons, and for high-strength steel bars preassembled with their ducts, are revised to conform to current industry practices.

Section 6-05.3(12) Determination of Bearing Values
The formula for determining pile bearing values is revised based on research of LRFD (Load and Resistance Factor Design) data to remove inaccuracies.

Section 6-13.3(2) Submittals
Adds concrete blocks into the requirements for fabrication of structural wall components. Formerly accepted by certification, concrete blocks will now require fabrication inspection. This is intended to make material acceptance easier and increase assurance that we are receiving the product our specifications require.

Section 6-13.3(4) Precast Concrete Facing Panel and Concrete Block Fabrication
Adds concrete blocks into the requirements for fabrication of structural wall components. Formerly accepted by certification, concrete blocks will now require fabrication inspection. This is intended to make material acceptance easier and increase assurance that we are receiving the product our specifications require.

Section 6-15.3(8) Soil Nail Testing and Acceptance
Clarifies how soil nail test loads are to be monitored during the testing process because the testing procedures were not specified.

Section 6-17.3(8) Testing and Stressing
Clarifies how permanent ground anchor test loads are to be monitored during the testing process because the testing procedures were not specified.

Section 6-17.3(8)A Verification Testing
Revised to require verification testing only when specified in the Special Provisions upon the recommendation of the Materials Laboratory Geotechnical Services Division. This testing is only necessary under certain soil conditions.

Section 6-17.3(8)B Performance Testing
Revised to specify the testing schedule for both the Load Resistance Factor Design method and the Load Factor Design Method, as these are the current industry standards for this type of work.

Section 6-17.3(8)C Proof Testing
Revised to specify the testing schedule for both the Load Resistance Factor Design method and the Load Factor Design Method, as these are the current industry standards for this type of work.

DIVISION 8 – MISCELLANEOUS CONSTRUCTION

Section 8-01.3(1)C Water Management
Modifies section title and adds common permit conditions into the contract. Permits are typically attached to contracts as Appendices, but permit requirements should be translated into contract provisions in order to be enforceable.

Section 8-02.3(2) Roadside Work Plan
Enhanced to provide the specific requirements for each plan. The previous provision required submittal of a plan with no criteria for determining what to include in the plan or what might constitute an acceptable submittal.

Section 8-02.3(12) Completion of Initial Planting
Corrects an error that defined completion of planting as having 95% of plants healthy and installed per plan. Now, 100% must be installed per plan and 95% must be healthy to meet the criteria for completion.

Section 8-02.5 Payment
Redefines the payment schedule for planting and plant establishment to provide an amount that is more proportionate to the value of the work performed.

Section 8-22 Pavement Markings
This is a hard copy distribution of an electronic update only. No change has been made since April 4, 2005.

Section 8-23 Temporary Pavement Markings
Adds the statement that edge lines shall be installed only if specifically required in the contract. The statement was mistakenly omitted in a previous revision to this section.

DIVISION 9 - MATERIALS

Section 9-02.1(9) Coal Tar Pitch Emulsions
Revised due to a change in the test method, from a Fed Spec to an ASTM test method.

Section 9-03.1(1) General Requirements
Updated to reflect the latest standards for Alkali Silica Reactivity (ASR) and mitigation for ASR, which came about through research done by the WSDOT HQ Mats Lab.

Section 9-03.1(5) Combined Aggregate Gradation for Portland Cement Concrete
This is a clarification of these requirements, as the combined gradation has been an option to using course and fine graded aggregates for some time.

Section 9-03.1(5)B Grading
Updates the 0.45 power chart to a more readable table format to replace the narrative version contained in the previous Standard Specifications.

Section 9-05.1(2) Zinc Coated (Galvanized) or Aluminum Coated (Aluminized) Corrugated Iron or Steel Drain Pipe
Increases sheet thickness and deletes welded seam pipe. This is because the steel sheet thickness is made commonly as 0.064 and the welded seam is no longer available as standard industry product, though it is still covered under the referenced standards. Defines material requirements in addition to fabrication requirements.

Section 9-05.2(4) Zinc Coated (Galvanized) or Aluminum Coated (Aluminized) Corrugated Iron or Steel Underdrain Pipe
Increases sheet thickness and deletes welded seam pipe. This is because the steel sheet thickness is made commonly as 0.064 and the welded seam is no longer available as a standard industry product, though it is still covered under the referenced standards. Defines material requirements in addition to fabrication requirements because these were lacking.

Section 9-05.4 Steel Culvert Pipe and Pipe Arch
Deletes welded seam pipe. This is because welded seam is no longer available as standard industry product, though it is still covered under the referenced standards. Defines material requirements in addition to fabrication requirements because these were lacking.

Section 9-05.4(3) Protective Treatment
This adds polymer as an option and ensures the pipe is galvanized.

Section 9-05.4(4) Asphalt Coating and Paved Inverts

Deletes the Aluminum column and thicknesses as the asphalt coating can nullify the aluminum oxidizing process that provides the protection.

Section 9-05.4(5) Polymer Protective Coating
This is a new section, created to cover polymer treatments that are now available.

Section 9-05.5(3) Protective Treatment
This section is deleted. Asphalt coated aluminum will no longer be allowed, as the asphalt coating can nullify the aluminum oxidizing process that provides the protection.

Section 9-05.5(4) Asphalt Coatings
This section is deleted. Asphalt coated aluminum will no longer be allowed, as the asphalt coating can nullify the aluminum oxidizing process that provides the protection.

Section 9-05.9 Steel Spiral Rib Storm Sewer Pipe
This changes the configurations to currently manufactured products and adds polymer. It also deletes reference to welded seam pipe, as it is no longer available as a standard industry product.

Section 9-05.9(2) Continuous Welded Seam Pipe
This section is deleted. Welded seam is no longer available as a standard industry product.

Section 9-05.10 Steel Storm Sewer Pipe
This accounts for hydraulic requirement and deletes reference to welded seam pipe. Welded seam is no longer available as a standard industry product.

Section 9-05.11 Aluminum Storm Sewer Pipe
Asphalt treatments for aluminum are deleted as they can ruin the oxidation protection properties of aluminum.

Section 9-05.17 Aluminum Spiral Rib Storm Sewer Pipe
This updates the provision to currently available configurations and deletes reference to coating. Asphalt treatments for aluminum can ruin the oxidation protection properties of aluminum.

Section 9-05.19 Corrugated Polyethylene Culvert Pipe
This revises the test method reference to conform to the current standards, as they have changed.

Section 9-12.4 Precast Concrete Manholes
Adds more details to the synthetic fiber reinforcing requirements of our contracts, as this technology continues to advance.

Section 9-12.5 Precast Concrete Catch Basins
Adds more details to the synthetic fiber reinforcing requirements of our contracts, as this technology continues to advance. Also, expands the use of synthetic fiber reinforcing to a broader range of applications.

Section 9-13.5(1) Semi Open Concrete Masonry Units Slope Protection
Deletes the reference to Type II because the current version of C 90 contains no reference to type.

Section 9-14.4(8) Compost
Revises the types of compost from Type 1 and 2 to Type 'Course' and 'Fine', in order to clear up confusion about the type of feedstock used to manufacture the compost. Also revised testing procedures from AASHTO test method to a TMECC test method, because the AASHTO test methods were producing failing results for acceptable materials. Changes Agency testing to testing by an independent STA program approved lab, because costs for independent testing are lower and demands for WSDOT lab time are high.

Section 9-20 Concrete Patching Material
Clarifies the submittal, approval, and acceptance procedure for concrete patching material used for dowel bar retrofit, partial depth spall repair and panel replacement.

Section 9-30.3(1) Gate Valves (3 Inches to 12 Inches)
Allows the C515 spec to be used as an equivalent and deletes the old and rarely used, if ever, C500 spec. Also combines all gate valves 3 to 16 inches in diameter into this section now that C500 is eliminated.

Section 9-30.3(2) Gate Valves (14 Inches and 16 Inches)
Delete this section as it is now combined with the prior section.

Section 9-30.5(4) Hydrant Restraints
Corrects omission of shackle rod diameter.

Section 9-33.1 Geosynthetic Materials Requirements
Replaces references to Table 9 and the Special Provisions with references to the Standard Plans. Since the completion and implementation of Standard Plan D-3 in June 2004, the physical property requirements for geosynthetic materials are now specified in the Standard Plans.

Section 9-34.2 Paint
Retroreflectance is revised to reflect measurement using the 30-meter retroreflectometer. This change is required because the 12-meter retroreflectometer is no longer the standard device used for measurement of this feature. The industry has moved to using the 30-meter device, and this revised provision is consistent with the methods defined in ASTM D 6359.

Section 9-34.3 Plastic
Retroreflectance is revised to reflect measurement using the 30-meter retroreflectometer. This change is required because the 12-meter retroreflectometer is no longer the standard device used for measurement of this feature. The industry has moved to using the 30-meter device, and this revised provision is consistent with the methods defined in ASTM D 6359. Also, the

specification in Section 9-34.3(3) for Type C – Cold Applied Pre-formed Tape is revised because Type VI and Type VII are not referred to in the latest version of ASTM D4505.

Section 9-34.5 Temporary Pavement Marking Tape
This is actually a previously published August 2, 2004 Amendment and is not revised since that date. Please disregard the revision line in the hard copy.

Section 9-35.2 Construction Signs
Removes conflicting statement that roll-up signs are not permitted.